

Product Information Sheet



EPO-TEK[®] HYB-353ND (formerly 113-114-4)

Date: 11/5/2015 Material Description:	Rev: III		
	A two component, high temperature hybrid epoxy for semiconductor, fiber optic and medical applications. It is designed to have similar cured performance to EPO-TEK® 353ND; modified to allow for initial UV tacking.		
Number of Components:	Тwo		
Mix Ratio by Weight:	10 : 1		
Recommended Cure:	Initial Tack 100mW/cm2 for 20 seconds @ 240-365 nm + 150°C/30 Minutes Thermal Cure		
Minimum Alternative Cure:	Initial Tack 100mW/cm2 for 20 seconds @ 240-365 nm + 100°C/30 Minutes Thermal Cure		
	Initial Tack 100mW/cm2 for 20 seconds @ 240-365 nm + 80°C/1 Hour Thermal Cure		
Specific Gravity:	Part A: 1.18 Part B: 1.02		
Pot Life:	2 Hours		
Shelf Life:	Six months at room temperature, protected from light		
<u>NOTES:</u>			
 Container(s) should be kept closed when not in use. 			

- To prevent gelation, keep containers away from light sources
- Filled systems should be stirred thoroughly before mixing and prior to use.
- Performance properties (rheology, conductivity & others) may vary from those stated below when syringe packaging and/or post-processing is required.
- Syringe packaging will impact initial viscosity and effective pot life, potentially beyond stated parameters.
- If product crystalizes in storage, place container in warm oven until crystallization disappears. Refer to Tech Tip #7 on website.
- TOTAL MASS SHOULD NOT EXCEED 25 GRAMS

MATERIAL CHARACTERISTICS: Cure Condition: Initial Tack 100mW/cm2 for 20 seconds @ 240-365nm + 150°C/30 Minutes Thermal Cure To be used as a guide only, not as a specification. Different batches, conditions and applications yield differing results.

PHYSICAL PROPERTIES:				
Color (before cure):	Part A: Clear	Part B: Amber		
Consistency:		Pourable liquid		
Viscosity (23°C) @ 10 rpm:		4,225	cPs	
Thixotropic Index:		N/A		
Glass Transition Temp:		109	°C (Dynamic Cure:20-200°C/ISO 25 Min;	
			+ Ramp -10-200°C @ 20°C/Min)	
Shore D Hardness:		78		
Die Shear @ 23°C:		24	Kg	
Degradation Temp:		400	°C	
Weight Loss:	@ 200°C	0.06	%	
	@ 250°C	0.72	%	
	@ 300°C	2.09	%	
Suggested Operating Ter	mperature:	< 350	°C (Intermittent)	
Spectral Transmission		≥ 50% @ 550	nm	
	≥ 95%	@ 1 100-1 600	nm	
	= 30 % > 98	% @ 800-1 000	nm	
Index of Refraction:		1.5547 @ 589	nm (uncured)	

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